



32608-A-sequence list with table 3.ST25.txt  
SEQUENCE LISTING

<110> Novartis AG  
Krause, Andreas  
Niese, Detlef  
Raulf, Friedrich  
Scherer, Andreas

<120> Diagnosis of chronic rejection

<130> 4-32608A

<140> PCT/EP03/09292  
<141> 2003-08-21

<150> US 60/405,225  
<151> 2002-08-22

<160> 38

<170> PatentIn version 3.3

<210> 1  
<211> 63  
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<213> Artificial

<220>  
<223> Primer sequence

<400> 1  
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ttt  
63

<210> 2  
<211> 20  
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<220>  
<223> Primer sequence

<400> 2  
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<210> 3  
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<212> DNA  
<213> Artificial

<220>  
<223> Primer sequence

<400> 3

gctgcatctc cttgctcca

19

<210> 4  
<211> 23  
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<220>  
<223> Primer sequence

<400> 4  
cccctctgcc tctccccacc ttc

23

<210> 5  
<211> 19  
<212> DNA  
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<220>  
<223> Primer sequence

<400> 5  
ggagcccaa aacctacca

19

<210> 6  
<211> 19  
<212> DNA  
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<220>  
<223> Primer sequence

<400> 6  
aagcaagaag cagcagcca

19

<210> 7  
<211> 19  
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<220>  
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<400> 7  
tcgcgtgttc cccaagcgc

19

<210> 8  
<211> 21

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<212> DNA  
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<220>  
<223> Primer sequence

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<210> 9  
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<212> DNA  
<213> Artificial

<220>  
<223> Primer sequence

<400> 9  
gattggcagt gccccatg

18

<210> 10  
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<212> DNA  
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<220>  
<223> Primer sequence

<400> 10  
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30

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<220>  
<223> Primer sequence

<400> 11  
gcaaggaggg caggacact

19

<210> 12  
<211> 22  
<212> DNA  
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<220>  
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<400> 12

32608-A-sequence list with table 3.ST25.txt

caaacatcac taagggcagg tg

22

<210> 13  
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<212> DNA  
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<220>  
<223> Primer sequence

<400> 13  
caggcactga gcaagcaggc cc

22

<210> 14  
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<220>  
<223> Primer sequence

<400> 14  
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19

<210> 15  
<211> 21  
<212> DNA  
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<220>  
<223> Primer sequence

<400> 15  
ttcagttatt ccgaacggga a

21

<210> 16  
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<212> DNA  
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<220>  
<223> Primer sequence

<400> 16  
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24

<210> 17  
<211> 21

32608-A-sequence list with table 3.ST25.txt

<212> DNA  
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<220>  
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<400> 17  
ctgagccacc ttgctgtct t

21

<210> 18  
<211> 21  
<212> DNA  
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<220>  
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<400> 18  
tttgaatccc aggcaacttt g

21

<210> 19  
<211> 27  
<212> DNA  
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<220>  
<223> Primer sequence

<400> 19  
tctcctggga cgagaaggac tcatcca

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<220>  
<223> Primer sequence

<400> 20  
aacttgccaa ttctgtgaat gttatt

26

<210> 21  
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<220>  
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<400> 21

32608-A-sequence list with table 3.ST25.txt

gggacatgtt acccaatcac aa

22

<210> 22  
<211> 33  
<212> DNA  
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<220>  
<223> Primer sequence

<400> 22  
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33

<210> 23  
<211> 23  
<212> DNA  
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<220>  
<223> Primer sequence

<400> 23  
tggaaattct gctcacttct tgc

23

<210> 24  
<211> 22  
<212> DNA  
<213> Artificial

<220>  
<223> Primer sequence

<400> 24  
tctgatgtca tggccaaatt tg

22

<210> 25  
<211> 22  
<212> DNA  
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<220>  
<223> Primer sequence

<400> 25  
tctgatgtca tggccaaatt tg

22

<210> 26  
<211> 24

32608-A-sequence list with table 3.ST25.txt

<212> DNA  
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<220>  
<223> Primer sequence

<400> 26  
gacactacta aagctcccag ctcc

24

<210> 27  
<211> 20  
<212> DNA  
<213> Artificial

<220>  
<223> Primer sequence

<400> 27  
ttctggaatc agctgctgga

20

<210> 28  
<211> 31  
<212> DNA  
<213> Artificial

<220>  
<223> Primer sequence

<400> 28  
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31

<210> 29  
<211> 1709  
<212> DNA  
<213> homo sapiens

<400> 29  
ggtacctcct gccagcacct cttgggtttg ctgagaactc acgggctcca gctacctggc

60

catgaccacc acatttctgc aaacttcttc ctccaccttt ggggggtggct caacccgagg

120

gggttccttc ctggctgggg gaggtggctt tgggtggggg agtctctctg ggggaggtgg

180

aagccgaagt atctcagctt cttctgctag gtttgtctct tcagggtcag gaggaggata

240

tgggggtggc atgaggggtct gtggctttgg tggaggggct ggtagtggtt tcggtggagg

32608-A-sequence list with table 3.ST25.txt

300

ctttggaggg ggcgttggtg ggggttttgg tggtagcttt ggtggtggcg atggtggtct

360

cctctctggc aatgagaaaa ttaccatgca gaacctcaat gaccgcctgg cctcctacct

420

ggacaaggta cgtgccctgg aggaggccaa tgctgacctg gaggtgaaga tccatgactg

480

gtaccagaag cagaccccag ccagcccaga atgcgactac agccaatact tcaagacct

540

tgaagagctc cgggacaaga tcatggccac caccatcgac aactcccggg tcctcctgga

600

gatcgacaat gccaggctgg ctgcggacga cttcaggctc aagtatgaga atgagctggc

660

cctgcgccag ggcgttgagg ctgacatcaa cggcttgccg cgagtcctgg atgagctgac

720

cctggccagg actgacctgg agatgcagat cgagggcctg aatgaggagc tagcctacct

780

gaagaagaac cacgaagagg agatgaagga gttcagcagc cagctggccg gccagggtcaa

840

tgtggagatg gacgcagcac cgggtgtgga cctgaccgt gtgctggcag agatgagga

900

gcagtacgag gccatggcgg agaagaaccg ccgggatgtc gaggcctggt tcttcagcaa

960

gactgaggag ctgaacaaag aggtggcctc caacacagaa atgatccaga ccagcaagac

1020

ggagatcaca gacctgagac gcacgatgca ggagctggag atcgagctgc agtcccagct

1080

cagcatgaaa gctgggctgg agaactcact ggccgagaca gagtgccgct atgccacgca

1140

gctgcagcag atccaggggc tcattggtgg cctggaggcc cagctgagtg agctccgatg

1200



32608-A-sequence list with table 3.ST25.txt

cgagatggag gctcagaacc aggagtacaa gatgctgctt gacataaaga cacggctgga

1260

gcaggagatc gctacttacc gcagcctgct cgagggccag gatgccaaga tggctggcat

1320

tggcatcagg gaagcctctt caggaggtgg tggtagcagc agcaatttcc acatcaatgt

1380

agaagagtca gtggatggac aggtggtttc ttcccacaag agagaaatct aagtgtctat

1440

tgcaggagaa acgtcccttg ccactcccca ctctcatcag gccaaagtga ggactggcca

1500

gagggcctgc acatgcaaac tccagtcctt gccttcagag agctgaaaag ggtccctcgg

1560

tcttttattt cagggctttg catgcgctct attccccctc tgctctccc caccttcttt

1620

ggagcaagga gatgcagctg tattgtgtaa caagctcatt tgtacagtgt ctgttcattgt

1680

aataaagaat tacttttcct ttgcaaat

1709

<210> 30

<211> 1359

<212> DNA

<213> homo sapiens

<400> 30

ctttttggtg taaatctgga ctctaattct gtaatatatc aaggaatctc gtaaaaccga

60

cactaaaacg tccctgccta caaatcatcc ggccaaatta tgagttcatt gtattatgcg

120

aatgctttat tttctaaata tccagcctca agttcggttt tcgctaccgg agccttccca

180

gaacaaactt cttgtgcgtt tgcttccaac cccagcgcc cgggctatgg agcgggttcg

240

ggcgcttcct tcgccggctc gatgcagggc ttgtaccccg gcgggggggg catggcgggc

300

32608-A-sequence list with table 3.ST25.txt

cagagcgcgg ccggcgtcta cgcggccggc tatgggctcg agccgagttc cttcaacatg  
360  
cactgcgcgc cctttgagca gaacctctcc ggggtgtgtc ccggcgactc cgccaaggcg  
420  
gcgggcgcca aggagcagag ggactcggac ttggcggccg agagtaactt ccggatctac  
480  
ccctcgatgc gaagctcagg aactgaccgc aaacgaggcc gccagaccta caccgctac  
540  
cagaccctgg agctggagaa ggaatttcac tacaatcgct acctgacgcg gcggcggcgc  
600  
atcgagatcg cgcacgcgct ctgcctcacg gaaagacaga tcaagatttg gtttcagaac  
660  
cggcgcata agtggaataa ggagaacaag accgcgggcc cggggaccac cggccaagac  
720  
agggtgaag cagaggagga agaggaagag tgagggatgg agaaaggga gaggaagaga  
780  
catgagaaag ggagacgaag agaagcccag ctctgggaac tgaatcagga aactcaaac  
840  
gaatagggaa gtaaaaaaac aaaacaaaaa acaaaaaaaaa acaaaaaaaaa accctattta  
900  
aatgaaagga gtttaaaaac attttttaag gagggagaaa ggagaaattt tggtttttca  
960  
acactgaaaa aatagtacct ataggaaagt ctgtcagggt tggttttttt gtacaatatg  
1020  
aaaaggacat tatctacctg ttctgtagct ttctggaatt tacctcccct tttctatggt  
1080  
gctattgtaa ggtctttgta aaatcttgca gttttgtaag ccctctttaa tgctgtcttt  
1140  
gtggactgtg ggtctggact aaccctgtgg ttgcctgccc tcctgtgcct ccgccttccc  
1200  
agcagcggca ccaagggggc ttagggagcc ccaaaccta ccactcgcgt gttccccaag  
1260

32608-A-sequence list with table 3.ST25.txt

cgccttgctg ctgctgcttg cttcccgctc ccagcccca tgctcccttt acattctgtg  
1320

tgtatctaaa ggatggaaaa ataaaacgca attaaaaat  
1359

<210> 31  
<211> 1370  
<212> DNA  
<213> homo sapiens

<400> 31  
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cggctgccgc atcgaatgca tattcttcag cgagttccac ccacgctgg gaccaagat  
120

cacctatcag gtccctgaag acttcatttc ccgagagctg ttgacacag tccaagtgt  
180

catcatcacc aagccagagc tgcagaacaa gcttatcact gtctagagag cagcttcgtg  
240

tccatggagg agagcaagca gaagttggtg cccatcatga ccatcttgct ggaggagcta  
300

aatgcctcag gccggtgcac tctgccatt gatgagtcca acaccatcca cttgaagggtg  
360

attgagcagc ggccagacc tccggtggcc caggagtatg atgtacctgt ctttaccaaa  
420

gacaaggagg atttcttcaa ctacagtgg gacctacta cacaacaaat cctgccctac  
480

attgatgggt tccgccacat ccagaagatt tcagcagagg cagatgtgga gctcaacctg  
540

gtgcgcttg ctatccagaa cctgctgtac tacggcggtg tgacactggt gtccatcctc  
600

cagtactcca atgtatactg cccaacgccc aagggtccagg acctggtaga tgacaagtcc  
660

ctgcaagagg catgtctatc ctacgtgacc aagcaagggc acaagagggc cagtctccgg  
720

32608-A-sequence list with table 3.ST25.txt

gatgtgttcc agctatactg cagcctgagc cctggcacta ccgtgcgaga cctcattggc  
780

cgccaccccc agcagctgca gcatgttgat gaacggtcag aggagaattt gctggggcat  
840

ttgggagtta cctgagggaa gctagaccct ttatgtctct caggagccct ggatcatggg  
900

gcactgccaa tccaagcagg cttcctggag atgatgggct acagagacaa aattgaaggg  
960

agactacagg aaaggggttg cctgcctgaa agaaggcctg gccagggcgt caccctgtcc  
1020

tctgatcctc accctaggaa gctgatccag ttcgggctta tgaagaacct catcaggcga  
1080

ctacagaagt atcctgtgcg ggtgactcgg gaagagcaga gccaccctgc ccggctttat  
1140

acaggctgcc acagctatga cgagatctgc tgcaagacag gcatgagcta ccatgagctg  
1200

gatgagcggc ttgaaaatga cccaacatc atcatctgct ggaagtgagg ctggtagtga  
1260

ctggatggac acattgctgt gggtagtccc tcctactagg aggcttgta tactgtctag  
1320

aggttgactc ttagttctgt aaataaagac atccatttca aacaaaaaaa  
1370

<210> 32  
<211> 2736  
<212> DNA  
<213> homo sapiens

<400> 32  
ttgcactctc ccacaccctt ttcttttcgt ccgctcttcg cttatttctc ccgccgtctc  
60

ctctgcataa gaaggggaac gaaagatggc ggcggaaacg ctgctgtcca gtttgttagg  
120

actgctgctt ctgggactcc tgttaccgc aagtctgacc ggcggtgtcg ggagcctgaa  
180

32608-A-sequence list with table 3.ST25.txt

cctggaggag ctgagtgaga tgcgttatgg gatcgagatc ctgccgttgc ctgtcatggg  
240  
agggcagagc caatcttcgg acgtggtgat tgtctcctct aagtacaaac agcgctatga  
300  
gtgtcgcctg ccagctggag ctattcactt ccagcgtgaa agggaggagg aaacacctgc  
360  
ttaccaaggg cctgggatcc ctgagttggt gagcccaatg agagatgctc cctgcttgct  
420  
gaagacaaag gactggtgga catatgaatt ctgttatgga cgccacatcc agcaatacca  
480  
catggaagat tcagagatca aaggtgaagt cctctatctc ggctactacc aatcagcctt  
540  
cgactgggat gatgaaacag ccaaggcctc caagcagcat cgtcttaaac gctaccacag  
600  
ccagacctat ggcaatgggt ccaagtgcga ccttaatggg agggcccggg aggccgaggt  
660  
tcggttcctc tgtgacgagg gtgcaggtat ctctggggac tacatcgatc gcgtggacga  
720  
gcccttgctc tgctcttatg tgctgaccat tcgcactcct cggtcttgcc cccaccctct  
780  
cctccggccc ccaccagtg ctgcaccaca ggccatcctc tgtcaccctt ccctacagcc  
840  
tgaggagtac atggcctacg ttcagaggca agccgactca aagcagtatg gagataaaat  
900  
catagaggag ctgcaagatc taggccccca agtgtggagt gagaccaagt ctggggtggc  
960  
accccaaaag atggcaggtg cgagcccgac caaggatgac agtaaggact cagatttctg  
1020  
gaagatgctt aatgagccag aggaccaggc cccaggaggg gaggaggtgc cggctgagga  
1080  
gcaggacca agccctgagg cagcagattc agcttctggt gctcccaatg attttcagaa

32608-A-sequence list with table 3.ST25.txt

1140

caacgtgcag gtcaaagtca ttcgaagccc tgcggatttg attcgattca tagaggagct

1200

gaaaggtgga acaaaaaagg ggaagccaaa tataggccaa gagcagcctg tggatgatgc

1260

tgcagaagtc cctcagaggg aaccagagaa ggaaaggggt gatccagaac ggcagagaga

1320

gatggaagaa gaggaggatg aggatgagga tgaggatgaa gatgaggatg aacggcagtt

1380

actgggagaa tttgagaagg aactggaagg gatcctgctt ccgtcagacc gagaccggct

1440

ccgttcggag gtgaaggctg gcatggagcg ggaactggag aacatcatcc aggagacaga

1500

gaaagagctg gaccagatg ggctgaagaa ggagtcagag cgggatcggg caatgctggc

1560

tctcatatcc acttcaaca aactcatcaa aagactggag gaaaaacaga gtccagagct

1620

ggtgaagaag cacaagaaaa agagggttgt ccccaaaaag cctccccat caccacaacc

1680

tacagaggag gatcctgagc acagagtccg ggtccgggtc accaagctcc gtctcggagg

1740

ccctaatacag gatctgactg tcctcgagat gaaacgggaa aaccacagc tgaaacaaat

1800

cgaggggctg gtgaaggagc tgctggagag ggagggactc acagctgcag ggaaaattga

1860

gatcaaaatt gtccgccccat gggctgaagg gactgaagag ggtgcacgtt ggctgactga

1920

tgaggacacg agaaacctca aggagatctt cttcaatatc ttggtgccgg gagctgaaga

1980

ggcccagaag gaacgccagc ggcagaaaga gctggagagc aattaccgcc ggggtgtggg

2040

ctctccaggt ggggagggca caggggacct ggacgaattt gacttctgag accaacacta

32608-A-sequence list with table 3.ST25.txt

2100

cacttgaccc ttcacggaat ccagactctt cctggactgg cttgcctcct cccacactcc

2160

ccaccctgga acccctgagg gccaaacagc agagtggagc tgagctgtgg acctctcggg

2220

caactctgtg ggtgtggggg ccctgggtga atgtgtctgc ccctgctggc agccaccttg

2280

agacctcacc gggcctgtga tatttgctct cctgaactct cactcaatcc tcttcctctc

2340

ctctgtggct tttcctgtta ttgtccccta atgataggat attccctgct gcctacctgg

2400

agattcagta ggatcttttg agtggagggtg ggtagagaga gcaaggaggg caggacactt

2460

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2520

ctcttctatt gaattgcctt gggatttctt tctccctttc cctgcccacc ctgtccccta

2580

caatttgtgc ttctgagttg aggagccttc acctctgttg ctgaggaaat ggtagaatgc

2640

tgcctatcac ctccagcaca atcccagcga aaaagggtgtg aagcaccac catgttcttg

2700

aacaatcagg tttctaaata aacaactgga ccatca

2736

<210> 33

<211> 859

<212> DNA

<213> homo sapiens

<400> 33

ggtgtacagc aagctgtgat tcttgggaaa actaaaaaag ttttctggga caacggggcc

60

ccagagtgat ggcagacaat gtcagccact aacaacatag cccaggcccc gaagctggtg

120

gaacagctac gcatagaagc cgggattgag cgcataagg tctccaaagc ggcgtctgac

32608-A-sequence list with table 3.ST25.txt

180

ctcatgagct actgtgagca acatgctcgg aacgaccccc tgctgggtcgg agtcacctgcc

240

tcggagaacc cctttaagga caagaaacct tgtattatatt tataactgtg ttctcatatg

300

ttctctctct ctctctttct ttctctctct ctctctgtct ctgtctctgt ctcaggcagg

360

gcatcattca gtaattagct caaacaaaac atctcaagtc cccaaaacct ttaattccaa

420

aagaaatccc ccctctaccc cgccaaaaaa ggcgttccca ccgcccggat ggggtagaat

480

ggaccttgta ggtggagatg aattttcagg tccgacccca tggccttctc agtttggggc

540

aaaagggatg gaggcctttac ggccacttcc cgttcggaat aactgaaatc cccagcgatg

600

gggtaacaat tttttaaaac tctcgattgc cgtttcaatt gtggaccggc gccgaggggg

660

aaagggaggt gacttcgccc ggtggcaata gttccgggag aattggccat tggtaaaaaag

720

acttcatagg gtcactggaa tgctttgtgt tgtttttaag tagaggtaaa attgagatgg

780

ggggcgggag gtgacatcat gaagtttttt ggaaatatct ctttatttaa aaaattgtta

840

ctccatacgg ctaaaaaag

859

<210> 34

<211> 1838

<212> DNA

<213> homo sapiens

<400> 34

ggcgggggtg gcagggttct accacgtgta ggataatcat tcattggtgt gtccaaaaat

60

ggggtctgct cctgctacct tgacccttcc ctttctctg cttctctcct catcatcatt



32608-A-sequence list with table 3.ST25.txt

120

cccaacaaca tcctctgcc aacgtaagtt tcatttgggc aaaaattgag

180

cctcacaata aacaccctga agacacaact tgacttataa catagtgcac agcaagagct

240

acatccaagt gtcctattat ctgtgattat tttcttaatg acaatgtaca tatgccccca

300

tccatggttaa ttattatcta attccattag gggtcacgtc ttttctttct gggacactat

360

cctactatat ccatacttat agatttcaat atagatgatt gtgccatctt ctgtagcccc

420

tccgctctac tcattccttc caccatctgc agagatttga agtttggggc tatgcatgaa

480

acccaacact aaattttgca agtcaagtga ccaaaaaagg gggaggcatt ttgaagatag

540

aacctctatt ttaaaaagag aagttcaact cataaacgtg attgataggt ggctgattta

600

tttaggtttt gtcaagctat ctatcaaagt aatggtacag ttacccatct actcaaatat

660

ctgatttatc tcaccatcca attatctacc cacctgtctt cctctctagc aatctattta

720

ctgtttatca atctatcaat gtaattgtct aacactcctt tctattctct ccctactact

780

cactatcaat tcatcccat atgaatctct aaccatattg tatctctccc actgtattca

840

tttatacacc atcagcagac attggcatct tcaaaattat ctttcaactt ctgtgaaagc

900

caacgatctc acaggttaac aaaatacaaa agcaatacc tgtgttggtg actctttaaa

960

atctggtatc ctatccacc aaggagaca ctaacagata ggccaaagta gcaagcta

1020

32608-A-sequence list with table 3.ST25.txt

gatcagtcac tcactattcc cggaagagcc tgtgttttct aaaacacttt cttgggaagc

1080

agatcagcct agaaaagttt tgattagcac tgtgggtttc cttttgcact tgaaggacaa

1140

agggtgccagc ctttatgctt ctctcaaccc ttcaagaaag tacatgtcag gaacctatgg

1200

ctggctttcc ttagcagcaa gaacttgaga gaaaaacaca tctgtctctg caatgcaaag

1260

tgaagagtcc acccgctga gtgggatgac ttcagctaga gtctcctttc tgctccagtt

1320

ctggtttaat ctgtttgaaa actatccagt aaaaagctga tggaggccaa ttacatggcg

1380

ggtgtattga caactctggt atttgtttca ggaagctctt ctaagctgag ggcacttgag

1440

caactgactt aattttcaag cacttgatta acacaacact gcaaacagaa gggagaaagt

1500

gtcagtgaca cagtttcttc tgatgcagct gcttctccaa tggctttggg gaagaacttc

1560

accagctctt caggttcaaa gcagaccag catacaaaca agagctgagc cacctttgct

1620

gtcttgtctc ctgggacgag aaggactcat ccagcaaagt tgcctgggat tcaaaataaa

1680

ggcattgcag accgcacagg tgtgctgcag ggactgatcc acagagagga tgagaatgca

1740

gcatcaatcg cagacctgcc ctgcctcagt tggaaaacct tttcaggccc tcagtctaaa

1800

aaataaaaaa tatgagcacc aaaaaaaaaa aaaaaaaaaa

1838

<210> 35

<211> 1053

<212> DNA

<213> homo sapiens

<400> 35

32608-A-sequence list with table 3.ST25.txt

gaaaaagctc cctggaaaaa ctctgttgcc acatgcacgt gccctgttac tcctccagcc

60

agccagtgcg gccagcattt tattgtgtaa aagtccaaat aaataagggc ctgcatgcaa

120

cctttatctt caaaaactag gttttatatg taaaatgtga cttgggaaat gattctgttt

180

attaactggc tgggattttt catttctatg aaagtttcaa acatctccag tactttataa

240

aatcccaaca attgctgtaa gtcagcactt tgggtccactc agcccaccca gccacttgc

300

aactctgact cttcactgaa tcatatttgg gaagtttggg tagggtgagg ctatcttctt

360

caagattatt ttctcatatg tctgtctgtc accttgtaaa ccatgagact cctgggtatt

420

tgcattgtaac ttctttgagg aagttaccac catctctgat atagacacac tttttgagtt

480

gcagtttctg ttagaatttt ttggagacta acttgccaat tctgtgaatg ttattgaata

540

tttaaaaagc tgggtctgta atgggaggca ttttattagc tgttgtgatt gggtaacatg

600

tccccttaga tttcctgatt taaaattata caaaattact atttttgata aaataaagga

660

acacctacag aaaattaagt ttctaagatg tttctatact tcattagaaa agattttatt

720

actattactt atgggttattg gtgattaaca cttaatgcgt ctctctgat tttgtgttcc

780

atgaggtgct tggaacattt ggagtgcctt gtgcgaggga catacagtga tataggaaat

840

ttaaaaatta aaataatacc caaaaccac tttatcagat atgggtattgt gatgggttaat

900

attatgtgtc aacttggtga ggctatggcg cccatgtgtt tgggtcaaaca ctagcctaga

960

32608-A-sequence list with table 3.ST25.txt

tggttgctgtg aatatatttt gtagatgtga ttaacattta caatcagttg attttaagta

1020

aagcagattc tcattcaaaa aaaaaaaaaa aaa

1053

<210> 36  
<211> 754  
<212> DNA  
<213> homo sapiens

<220>  
<221> misc\_feature  
<222> (1)..(12)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (14)..(15)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (17)..(20)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (24)..(24)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (27)..(27)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (35)..(35)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (89)..(89)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (93)..(93)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (203)..(203)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature

32608-A-sequence list with table 3.ST25.txt

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<222> (220)..(220)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (251)..(251)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (259)..(259)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (278)..(278)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (283)..(283)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (286)..(286)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(294)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (303)..(303)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (311)..(311)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (327)..(330)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (333)..(334)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (336)..(338)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (344)..(345)
<223> n is a, c, g, or t

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32608-A-sequence list with table 3.ST25.txt

<220>  
 <221> misc\_feature  
 <222> (348)..(349)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (353)..(353)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (358)..(363)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (365)..(368)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (372)..(373)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (375)..(378)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (380)..(380)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (382)..(382)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (385)..(752)  
 <223> n is a, c, g, or t

<400> 36  
 nnnnnnnnnn nntnntnnnn cgngngncta ccctncatac ttagttgtga gatccatccc

60

ctggcttcat tccctgaact ggctttagna acnctggcag tctagcttat aacccccagg

120

ctgactagag aactcaaggt aaaagcagcc caagaaaaac agaccaacag aaaagcaatg

180

agagaaagga tgaaggttcc ctntctgatg atccattaan tggaagagta acccaagaaa

240

acatcatgga ntccaagant cagtggatcc agcacaanaa ggnggnaaag ggnnattcag

32608-A-sequence list with table 3.ST25.txt

300

ctnggtctta ncaggtgact gtcaaanann ggnntnnncc cagnntgnnc tgntcaannn

360

nnntnnnnca gnnntnnnnn gncannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

540

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

600

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

660

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

720

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngg

754

<210> 37

<211> 2064

<212> DNA

<213> homo sapiens

<400> 37

aaaatggggt ttggtgtaaa tctgggggtg taatgttatc atatatcact ctacctcgta

60

aaaccgacac tgaaagctgc cggacaacaa atcacaggtc aaaattatga gttcttcgta

120

ttatgtgaac gcgcttttta gcaaatatac ggcggggact tctctgttcc aaaatgccga

180

gccgacttct tgctcctttg cgcccaactc acagagaagc ggctacgggg cgggcgccgg

240

cgcttcgcc tcgaccgttc cgggcttata caatgtcaac agcccccttt atcagagccc

300

ctttgcgtcc ggctacggcc tgggcgccga cgcctacggc aacctgccct gcgcctccta

32608-A-sequence list with table 3.ST25.txt

360

cgaccaaaac atccccgggc tctgcagtga cctcgccaaa ggcgcctgcg acaagacgga

420

cgagggcgcg ctgcatggcg cggctgaggc caatttccgc atctaccctt ggatgcggtc

480

ttcaggacct gacaggaagc ggggccgcca gacctacacg cgctaccaga cgctggagct

540

ggagaaggag ttccacttca accgctacct gacctggcgc cgccgcattg aaatcgccca

600

cgcgctctgc ctcaccgagc gccagattaa gatctggttc cagaaccgcc gcatgaagtg

660

gaagaaagag cataaggacg aaggtccgac tgccgccgca gctcccgagg gcgccgtgcc

720

ctctgccgcc gccactgctg ccgcggacaa ggccgacgag gaggacgatg atgaagaaga

780

ggaagacgag gaggaatgag gggccgatcc ggggccctct ctgcaccgga cagtcggaaa

840

agcgtcttta agagactcac tggttttact tacaaaaatg gaaaaaaaaa aaaaaaaga

900

aggaagggtt ggtcatggtg gaggtgcgca aggagaaaca gttccagaaa gtgatcacag

960

aatacctgaa tgcccaagag tcagcctggc gctcttggct gacctccaac attttaatct

1020

aagtggccgg gacaaaattg accaaaacta gggggaggag gggaccagta gtactaatga

1080

cttactacag gtcattatga aataagctaa caatactgaa tctttggcga gaaaattttg

1140

ctgctaaggg cactgcactg taatttggtt gtaaaggcta atatagtaga gattaaagct

1200

ccgttgagga caggtgcctt gtctttaaca cgttgtattc atcacattta acataggagt

1260



32608-A-sequence list with table 3.ST25.txt

aattgctgag ggatgacttg attgtactac ggtgagatga agggttaaga tttcttcccc

1320

atcaccagta gcctccctag ctggtgtccc tgtctccata ctctcctgaa tccaccttcc

1380

actattgtcc gctggccctt tccagcctgt aaactggaca gttttcattc ctctgcctaa

1440

catccagtcg tagcagccca tcccatctct ttaaggataa aacccaaatt cttggtatag

1500

taaagctaaa ccaagcgctc tccctggaag ggctcctgtg tttcaccaa gctgacttac

1560

gtactttccc catcttccca ggcattctgt acgtcgttac atttatcata ttggaaggta

1620

ataaatgatc ttgttttcct cttttcctgg gctccttatt aagagcaggg aacctaattt

1680

ataticctcag ggcagaacag gtattcagaa aagaataatg caagaggaaa aaagtttaat

1740

ataaactagg gagatcgtaa cattggctaa tcacgagcaa atatttatag aagaccact

1800

gtgtgctaaa tggctcctaa tatatactta agatattctc ccagcttgga aattctgctc

1860

acttcttgct cttgcttgct tctctggtgg gcttccatcc aaatttggcc atgacatcag

1920

atcatatggt taatattaac aaatattgta taaattgttt tcatacttaa tatccaacag

1980

gttgtcaatt tacgtactac tgggtgcctta tctgttttta ctgtcccata cactgcccac

2040

ctggaataag cttagtgtta aaaa

2064

<210> 38

<211> 2723

<212> DNA

<213> homo sapiens

<400> 38

32608-A-sequence list with table 3.ST25.txt

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 60  
 ctccctcttt ctggatttta ccgaccgttc gcgaaacagc tttccacaca atggagcttc  
 120  
 atgtcctcgt gcaggaagta ctcatcgact gatgtggcag actttgctcc ctgacaaaac  
 180  
 taaagaactc tcctattcat ggaggcgaac actgaggatg ctttccacat gaaccctgaa  
 240  
 gtgaacttct gatacatttc ctgcagcaag agaaggcagc caacatgaag gaaaatgtgg  
 300  
 catctgcaac cgttttcact ctgctacttt ttctcaacac ctgccttctg aatggacagt  
 360  
 tacctcctgg aaaacctgag atctttaaat gtcgttctcc caataaggaa acattcacct  
 420  
 gctggtgagg gcctgggaca gatggaggac ttctaccaa ttattcactg acttaccaca  
 480  
 gggaaggaga gacactcatg catgaatgtc cagactacat aaccggtggc cccaactcct  
 540  
 gccactttgg caagcagtac acctccatgt ggaggacata catcatgatg gtcaatgcc  
 600  
 ctaaccagat gggaagcagt ttctcggatg aactttatgt ggacgtgact tacatagttc  
 660  
 agccagaccc tcctttggag ctggctgtgg aagtaaaaca gccagaagac agaaaaccct  
 720  
 acctgtggat taaatggtct ccacctaccc tgattgactt aaaaactggt tggttcacgc  
 780  
 tcctgtatga aattcgatta aaacccgaga aagcagctga gtgggagatc cattttgctg  
 840  
 ggcagcaaac agagttaaag attctcagcc tacatccagg acagaaatac cttgtccagg  
 900  
 ttctgtgcaa accagaccat ggatactgga gtgcatggag tccagcgacc ttcattcaga  
 960

32608-A-sequence list with table 3.ST25.txt

tacctagtga cttcaccatg aatgatacaa ccgtgtggat ctctgtggct gtcctttctg  
1020  
ctgtcatctg tttgattatt gtctgggcag tggctttgaa gggctatagc atggtgacct  
1080  
gcatctttcc gccagttcct gggccaaaaa taaaaggatt tgatgctcat ctgttgaga  
1140  
agggcaagtc tgaagaacta ctgagtgcct tgggatgcca agactttcct cccacttctg  
1200  
actatgagga cttgctggtg gagtatttag aagtagatga tagtgaggac cagcatctaa  
1260  
tgtcagtcca ttcaaaagaa cacccaagtc aaggtatgaa acccacatac ctggatcctg  
1320  
aactgactc aggccggggg agctgtgaca gcccttcctt tttgtctgaa aagtgtgagg  
1380  
aaccccaggc caatccctcc acattctatg atcctgaggt cattgagaag ccagagaatc  
1440  
ctgaaacaac ccacacctgg gacccccagt gcataagcat ggaaggcaaa atcccctatt  
1500  
ttcatgctgg tggatccaaa tgttcaacat ggcccttacc acagcccagc cagcacaacc  
1560  
ccagatcctc ttaccacaat attactgatg tgtgtgagct ggctgtgggc cctgcaggtg  
1620  
caccggccac tctgttgaat gaagcaggta aagatgcttt aaaatcctct caaaccatta  
1680  
agtctagaga agagggaaaag gcaaccagc agaggagggt agaaagcttc cattctgaga  
1740  
ctgaccagga tacgccctgg ctgctgcccc aggagaaaac cccctttggc tccgctaaac  
1800  
ccttgatta tgtggagatt cacaaggtca acaaagatgg tgcattatca ttgctaccaa  
1860  
aacagagaga gaacagcggc aagcccaaga agcccgggac tcctgagaac aataaggagt

32608-A-sequence list with table 3.ST25.txt

1920

atgccaaggt gtccgggggtc atggataaca acatcctggt gttggtgcc gatccacatg

1980

ctaaaaacgt ggcttgcttt gaagaatcag ccaaagaggc cccaccatca cttgaacaga

2040

atcaagctga gaaagccctg gccaaacttca ctgcaacatc aagcaagtgc aggctccagc

2100

tgggtggttt ggattacctg gatcccgcat gttttacaca ctctttcac tgatagcttg

2160

actaatggaa tgattggtta aaatgtgatt tttcttcagg taacactaca gagtacgtga

2220

aatgctcaag aatgtagtca gactgacact actaaagctc ccagctcctt tcatgctcca

2280

tttttaacca cttgcctctt tctccagcag ctgattccag aacaaatcat tatgtttcct

2340

aactgtgatt tgtagattta ctttttgctg ttagttataa aactatgtgt tcaatgaaat

2400

aaaagcacac tgcttagtat tcttgaggga caatgccaat aggtatatcc tctggaaaag

2460

gctttcatga tttggcatgg gacagacgga aatgaaattg tcaaaattgt ttaccataga

2520

aagatgacaa aagaaaattt tccacatagg aaaatgccat gaaaattgct tttgaaaaac

2580

aactgcataa cctttacact cctcgtccat tttattagga ttaccctaat ataaccattt

2640

aaagaaagaa tgcatccag aacaaattgt ttacataagt tcctatacct tactgacaca

2700

ttgctgatat gcaagtaaga aat

2723